KENWOOD

CD TUNER

KDC-84R
KDC-94R

INSTRUCTION MANUAL

KENWOOD CORPORATION

COMPACT disc DIGITAL AUDIO

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92/12 11 10 9 8 7 6 5 4 3 2 1 91/12 11 10 9 8 7 6 5 4 3

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BEFORE USE

Note on Operation

- The CD Player is designed to be connected to 12 V DC and negative grounding.
- Avoid mounting the CD Player where it is likely to be exposed to direct sunlight, hot air or water. Also, avoid mounting it where there is excessive vibration. Take care not to allow any metal objects or water to enter the interior of the CD Player.
- When you use the CD Player for the first time, or if you have replaced the battery, push the Reset button with the tip of a pencil or similar pointed object.
- If a disc is inserted violently, sometimes a protection circuit will function and stop the operation. Should the protection circuit function, turn the power switch OFF once and then turn it ON again.

About Condensation

- When a disc or disc magazine is brought from a low-humidity place to a car where there is high humidity due to rain, etc., water vapor may condense on the disc. Or, when the main unit of the changer is installed under the dashboard, condensation may occur on the surface of the optical lens immediately after turning on the heater. If the CD player is operated in this condition, the laser pickup may not correctly read out the signal, or dropouts may occur occasionally. Thus, correct operation may not be obtained. In such cases, dehumidify the disc, or remove the disc magazine from the changer and leave it for about one hour, at which time correct operation will resume.
  If the CD player does not operate correctly after a long time interval, consult your dealer or nearest KENWOOD Service Station.

About temperature

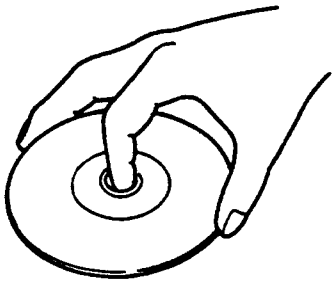
- When a car is exposed to sunlight with all the windows closed, the temperature inside will rise considerably. When it rises above 60 degrees C, a circuit that protects the interior will function, displaying "HOLD" and the compact disc may sometimes cease to operate. In such a case, the compact disc cannot be played back. At that time, operate the air-conditioner or open the window and drive for a while to decrease the room temperature. When the room temperature is lowered, the "HOLD" indicator automatically goes off and play starts automatically. If the compact disc cannot still be played back correctly, press the Reset button.

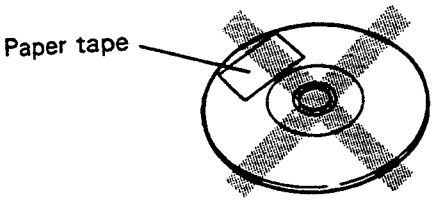
Handling of compact disc

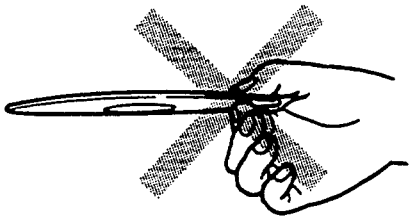
- Stains, dust or scratches on the disc or warping of the disc will cause malfunction such as skipping. Handle the disc in the following manner so that you may enjoy the beautiful sound of the CD Player for a long time.

BEFORE USE

<Handling the disc>
Hold the disc without touching the music storage area (glistening rainbow colors). Do not apply a paper tape to the label on the disc nor to the music storing area.

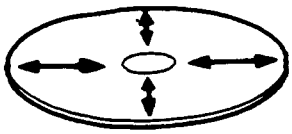


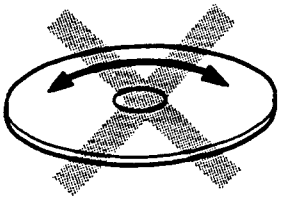


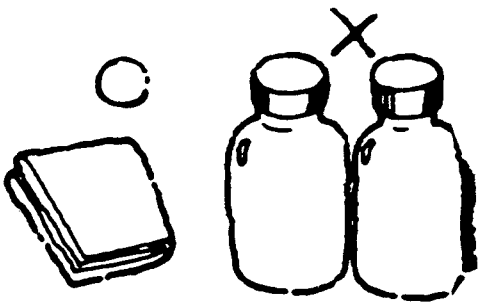


<Storage of compact disc>
- Do not put the disc where it is exposed to direct sunlight, heat or humidity.
- Especially in summer, never leave the disc exposed to direct sunlight or placed on the seat or dashboard with the windows closed because the temperature will rise considerably and the disc will warp.
- When the player is not in use for an extended period of time, remove the disc magazine from the changer, and store it in a place which is not subject to high temperature or high humidity.
  Be sure to store the discs in their cases or in the magazine. Do not leave them outside of the case or magazine, or piled up, or leaning on a slant. This may cause scratches, dirt or warping.

<Cleaning of compact disc>
If there are fingerprints or stains on the disc, remove them by lightly wiping it with soft cotton cloth from the center toward the outside edge. Never use thinner or benzine. Also, avoid using conventional record cleaner.







POWER AND VOLUME

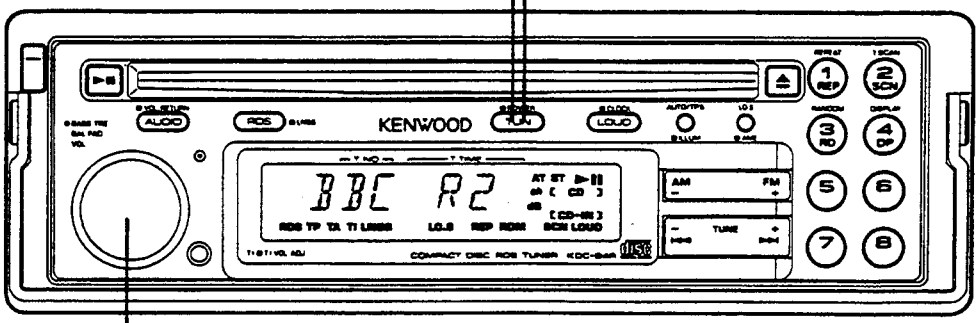
POWER ON/OFF

Press the Power switch.
(The power goes ON.)

Press the Power switch for more than 1 second.
(The power goes OFF.)

ALL MODE STAND BY

Tap the Power switch during tuner mode.
(The power remains in the ON condition and wait for operation of each mode state.)



VOLUME

Turning this knob clockwise, increases the volume, and turning counterclockwise, decreases.

1. Turning the power ON automatically turns this unit to a tuner mode.
2. Explain how to operate hereafter with the power ON.
3. When a telephone call is received while the phone interface lead of the Detachable case ① is connected, it will displayed as "CALL" and the unit does not function. To release this condition, press the TUN, Play/Pause (►II) or CD-CH (CD Changer: KDC-94R only) switch.
   This function will not be in operation for the initial 10 seconds of the ignition key switch being switched ON.

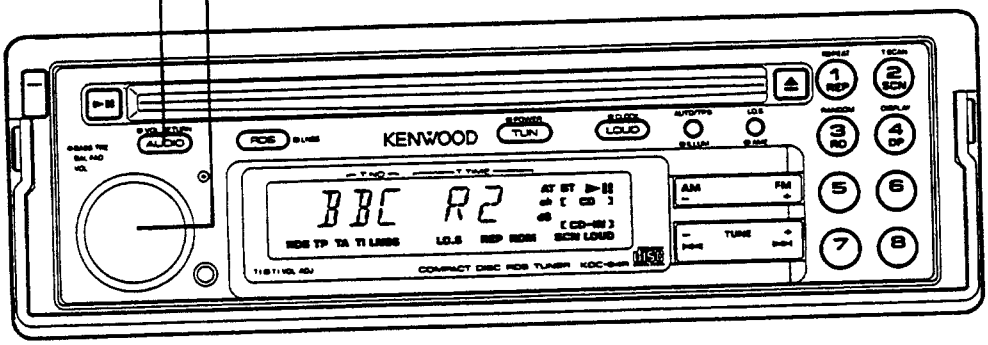
AUDIO CONTROL

1

Tapping the Audio switch will enable the audio control. Unless it is pressed, Volume and it becomes possible to adjust in the order of Bass, Treble, Balance and Fader and back to Volume if tapped every time.

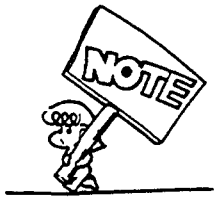
2

Adjustment will be made by the Audio controller respectively.
For operations and display, refer to the following table.

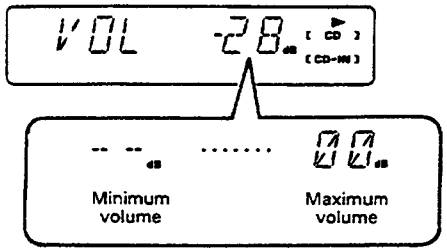
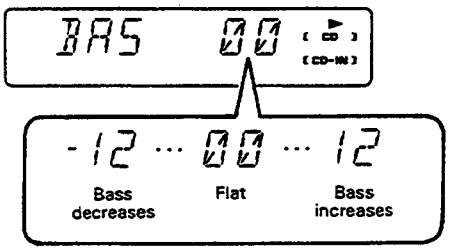
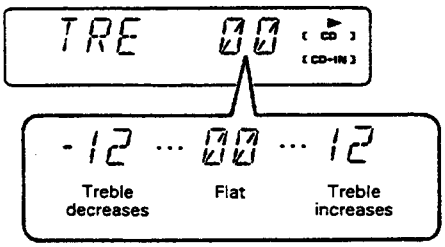
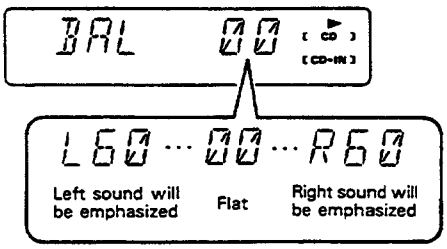
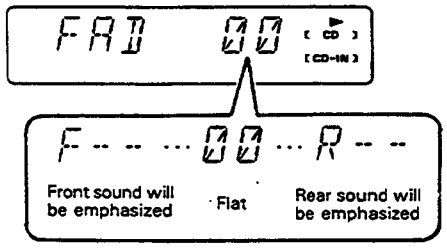


TO RELEASE

If operation is not made for about 5 seconds, volume adjustment will be ready to be set.



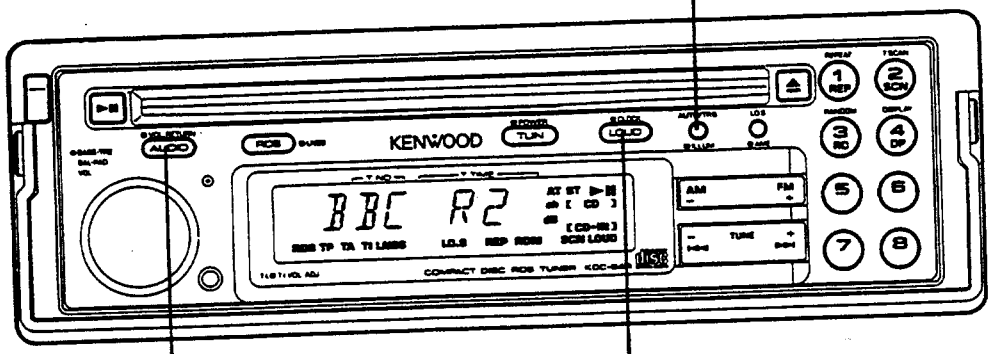
- With the KDC-84R, pressing the Audio switch for more than 1 second will release the audio control function.

Display	Operation of volume controller	
	Turn counterclockwise	Turn clockwise
Adjust the Volume 	Volume decreases.	Volume increases.
Adjust the Bass response 	Bass decreases.	Bass increases.
Adjust the Treble response 	Treble decreases.	Treble increases.
Adjust the Balance of the right and left channels 	The left sound will be emphasized.	The right sound will be emphasized.
Adjust the Balance of the front and rear channels 	The front sound will be emphasized.	The rear sound will be emphasized.

ILLUMINATION AND LOUDNESS

■ Illuminations can be changed to fit the type of car or to suit your own taste.

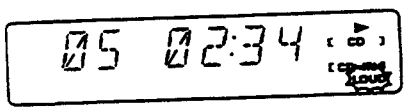
Every time the Illumination switch is pressed for more than 1 second, it will switch over between the colors of green and orange.



<KDC-94R>

LOUDNESS SWITCH

When listening at low volume levels, press this switch for more than 1 second will activate the loudness circuit which will compensate for the human ear's decreased response.

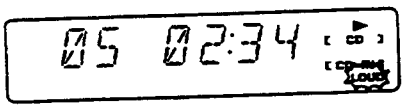


ON

<KDC-84R>

LOUDNESS SWITCH

When listening at low volume levels, tap this switch will activate the loudness circuit which will compensate for the human ear's decreased response.



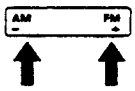
ON

- Keeping connected the Automatic Illumination/Dimmer control supply lead of the Detachable case ①, the illumination become dark synchronized with the car's light.
  Even during the power is OFF, turning ON the car's light control the illumination lights up.

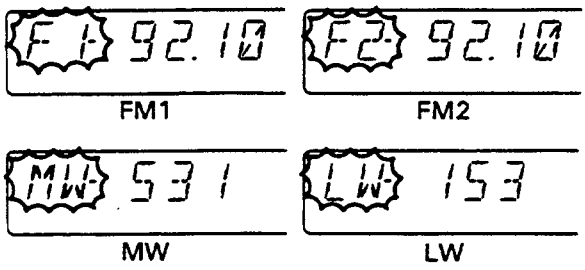
SEEK TUNING

1

Select the desired Band.

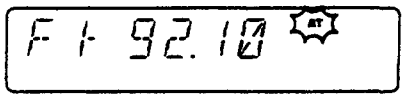


Press MW or LW Press FM1 or FM2

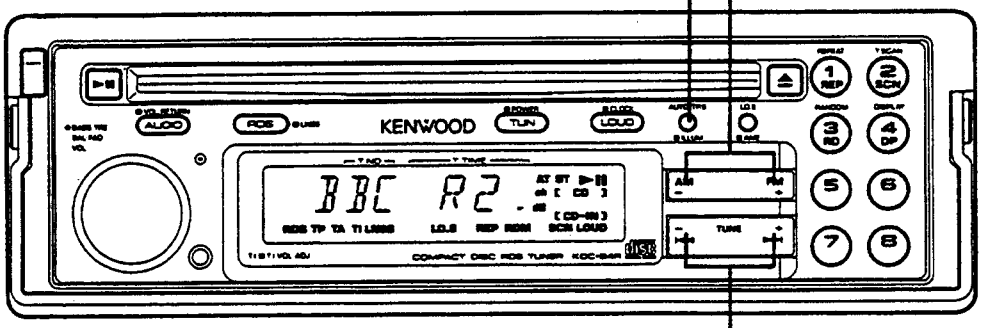


2

Turn the Auto switch ON.

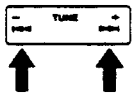


ON



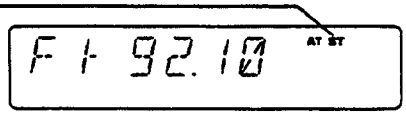
3

Press Seek switch.
(Seek starts and receives a broadcast station.)



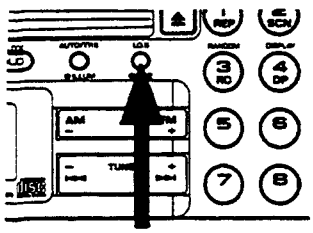
Down seek Up Seek

Lit when stereo broadcast is received.



Indicates reception frequency.

<Local tuning>



Tap

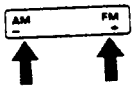
ON

- If the Local switch is turned ON during SEEK TUNING and AUTO MEMORY, it will stop at stations only with satisfactory reception conditions.

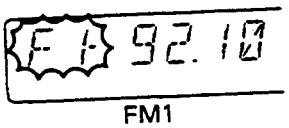
MANUAL TUNING

1

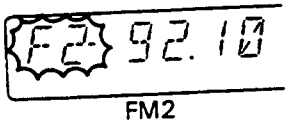
Select the desired Band.



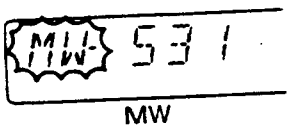
Press MW or LW Press FM1 or FM2



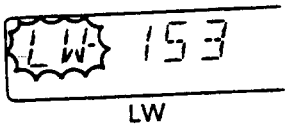
FM1



FM2



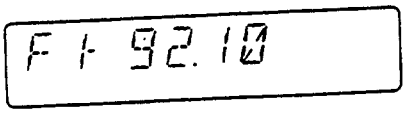
MW



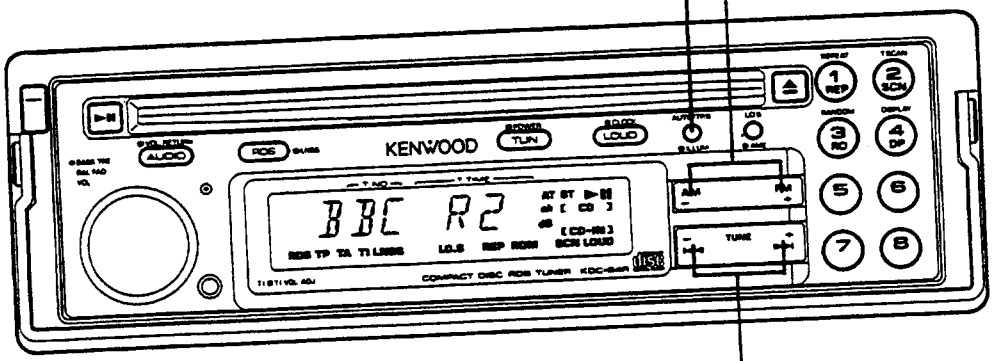
LW

2

Turn the Auto switch OFF.

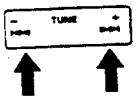


OFF



3

Press to select the desired frequency.



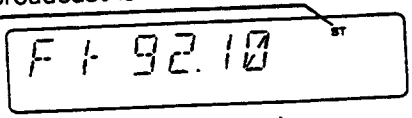
For lower frequencies For higher frequencies

(Continued pressing will change it continuously.)

4

Indicates the frequency being received.

Lit when stereo broadcast is received.



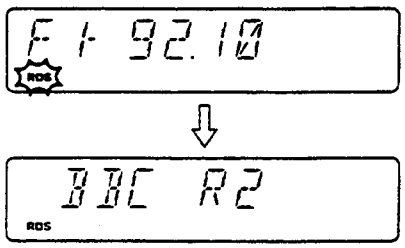
Indicates reception frequency.

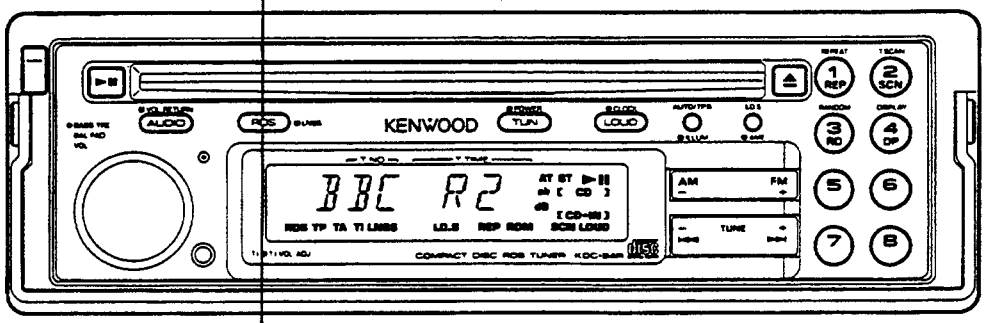
RDS (Radio Data System)

■ If RDS function is turned ON while you are taking a long-distance drive, a well-received RDS broadcasting station is automatically searched with the same broadcasting which is poorly received by the RDS broadcasting station. It also indicates the name of broadcasting station when you are receiving a RDS broadcasting station.

1

Tap the RDS switch.
(The RDS Indicator is lit up, then the RDS function is turned ON. It indicates the name of broadcasting station when you are listening to a RDS station.)



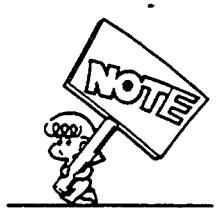


2

If the receiving condition of the broadcasting station you are listening to gets worse, the RDS station providing the same broadcasting will be searched.

TO RELEASE

If you wish to cancel the RDS function, tap RDS switch.
(The RDS indicator goes off, and then the RDS function will be turned OFF.)



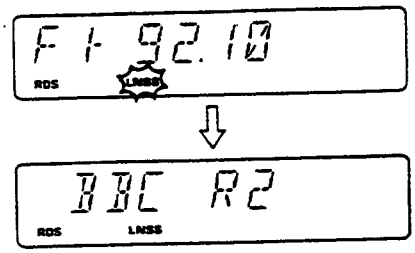
- If the data of the same station cannot be received even after the receiving condition got worse, it automatically seeks the same broadcasting.
  If it fails to find out the same station with a round seeking, it will go back to the original station and end the searching.
  (If you wish to turn off this seeking function, turn OFF the RDS.)

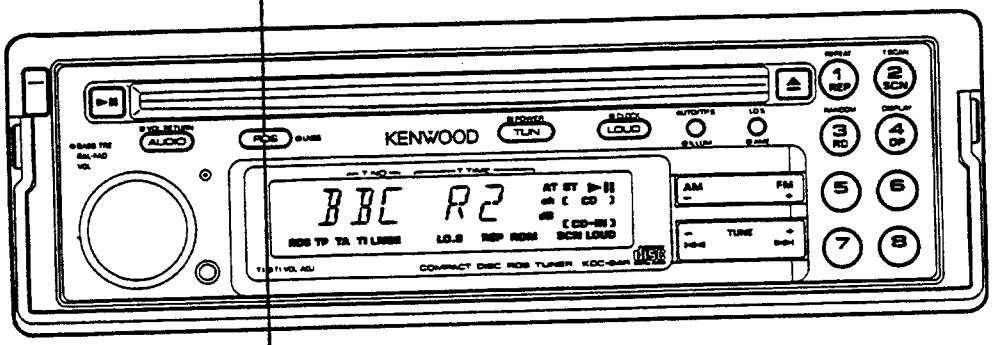
LNSS (Local Network Search System)

■ **In many regions local stations exist and are operated in conjunction with the national network stations. When you wish to receive a national program from a local station and of course local programming you switch to LNSS. With the LNSS switch set to ON, the unit will search initially for the national broadcast station. If this signal is too weak then the unit will locate the stronger local station broadcasting the same program, or a localised version.**

1

Press the LNSS switch for 1 second or more.
(The LNSS indicator is lit up, then the LNSS function will be turned ON.)



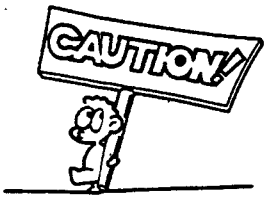


2

If the receiving condition of the RDS station you are listening to gets worse, the same station including local stations will be searched.

TO RELEASE

If you wish to cancel the LNSS function, press the LNSS switch for 1 second or more.
(The LNSS indicator goes off, and then the LNSS function will be turned OFF.)



- When it has sought a local stations, a different broadcasting program may be caught.

CLOCK INDICATION

■ **Some RDS stations send clock data so that you can get correct time if you receive a RDS station. Once you receive it, you can get the time with the built-in clock function.**
When you are in a foreign country, you can also adjust the time lag if you receive a local RDS station.

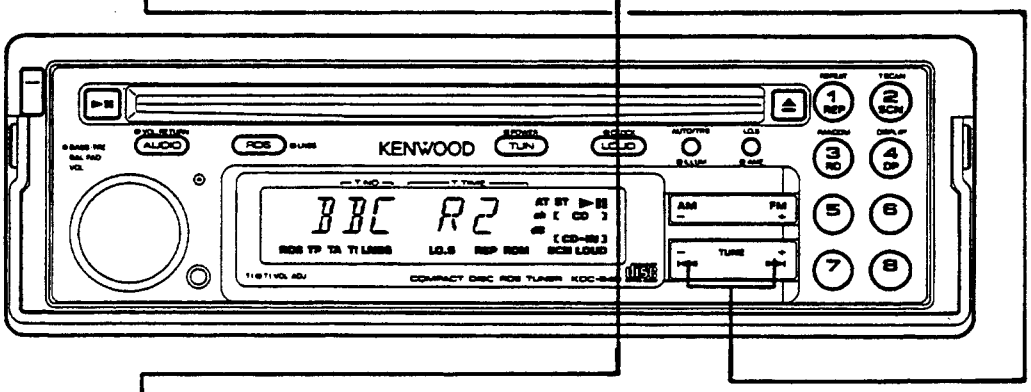
1

A RDS station is received.

2

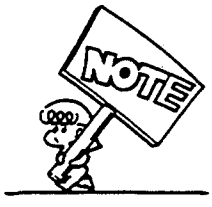
Press the Clock switch for more than 1 second to set to clock display.
(It indicates the time in 24 hours.)
Each time the Clock switch is pressed for more than 1 second, the display changes as follows.

MODE	INDICATION
TUNER	Tuner Display ↔ Clock
CD	CD Display ↔ Clock

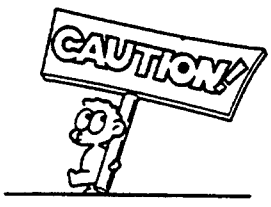


3

As it counts the time with the built-in clock function, it tells the time if you press the Clock switch after you receive a RDS station.



- If "——:——" is indicated even when the CLOCK INDICATION is set at Step 2, the RDS station you are receiving may not be sending the clock data. In such a case, try to tune in to other RDS stations.



- If the unit is removed, the clock date will be eliminated.

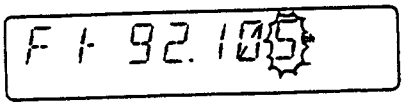
PRESET STATION TUNING

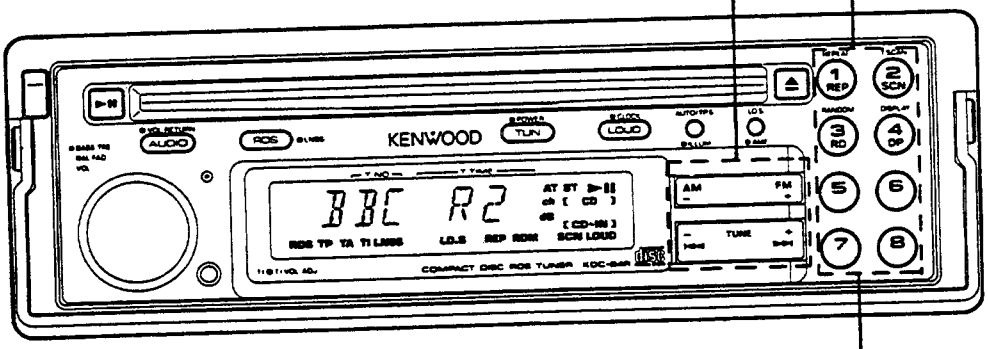
1

Selects the band and station you wish to preset.

2

Press the Preset station switch you wish to be kept preset for more than 2 seconds.
(When it is preset, the number of switch pressed will be indicated.)



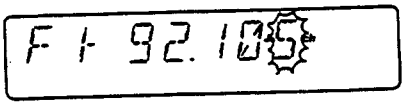


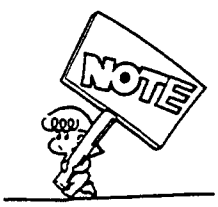
3

By repeating operation of 1 - 2 above, one station can be memorized in one switch each at FM1, FM2, MW and LW.

4

If tapped, the preset station can be called out.
(The number of switch pressed will be indicated.)



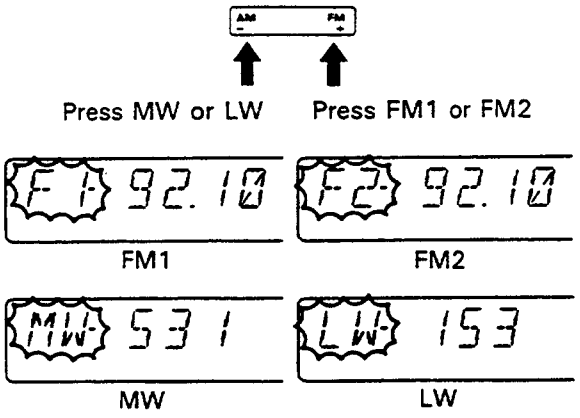


- If preset is to be made anew on the switch already preset, what was preset before will be replaced with what is to be preset.

AUTO MEMORY

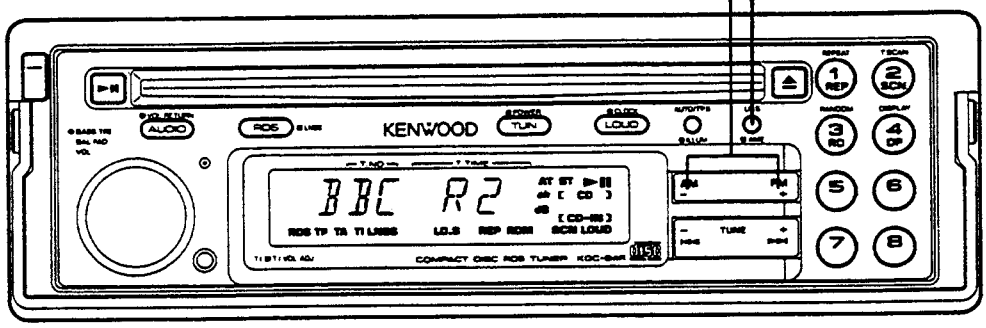
1

Select the desired Band.
With the FM1 band, only the RDS stations are automatically memorized. FM2 band performs AUTO MEMORY for RDS stations including other stations.



2

Press the Auto memory switch for more than 2 seconds.



3

The selected band is automatically scanned and 8 stations are memorized. When 8 stations are memorized, the AUTO MEMORY function is automatically released.

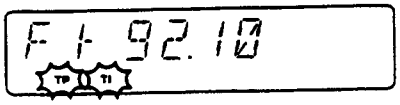
4

The station last stored in memory is received.

TRAFFIC INFORMATION

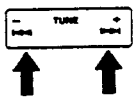
1

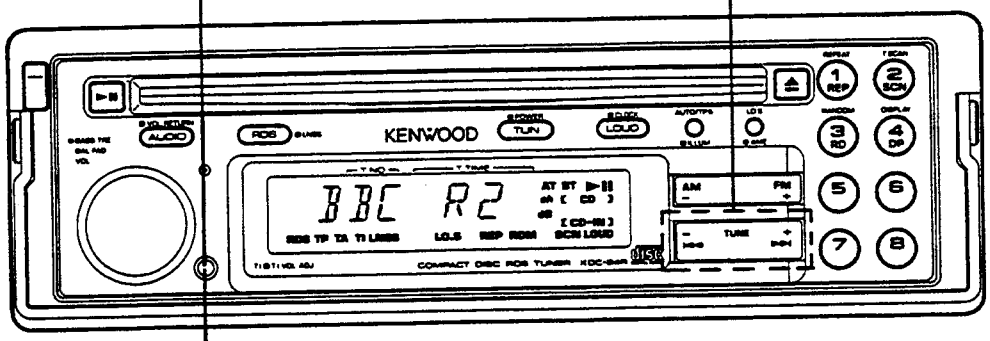
Tap the TI (Traffic Information) switch.
(TI indicator lights up.)
When the receiving broadcast station is not the TP (Traffic Program) station, it will start to seek up to the TP station.
(TP indicator lights up.)



2

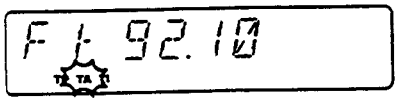
If the station received is not the station you wish to listen to, press the TP Seek switch again.
(The seek operation resumes and continues until the next TP station is received.)





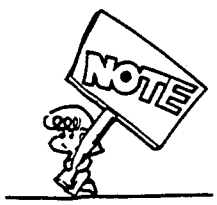
3

When the traffic information starts, the volume will automatically be set to.
(TA indicator lights up.)



4

To listen to traffic information at the same level, tap the TI switch.



- If the Auto switch is kept ON at the operating time of 2., you can make a swift station selection.
- If the week signal condition of the TP station continues for more than 5 seconds, the seek up operation automatically starts to receive other TP station.
- Pressing the TI switch in the MW/LW mode changes the reception mode to the FM mode. However, pressing the TI switch again will not return the mode to the MW/LW mode.

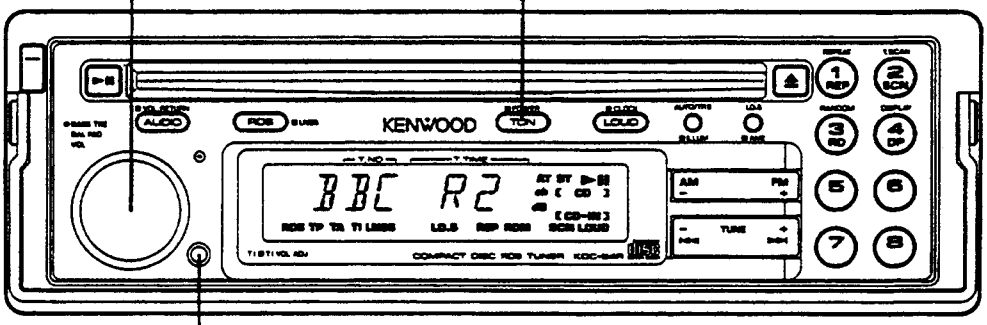
■ Setting the level during traffic information reception

1

Set the unit to Tuner mode.

2

Adjust the volume level during traffic information reception.



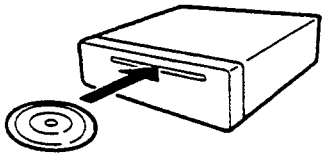
3

Press the TI volume adjust switch for more than 1 second.
(The volume level set in step 2 is memorized.)

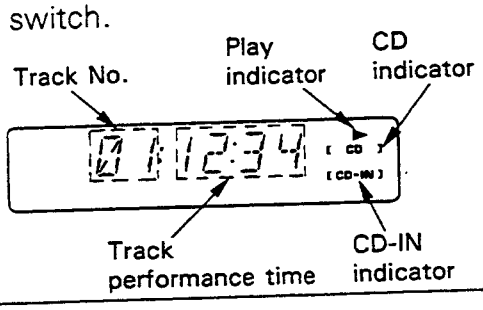
COMPACT DISC PLAY

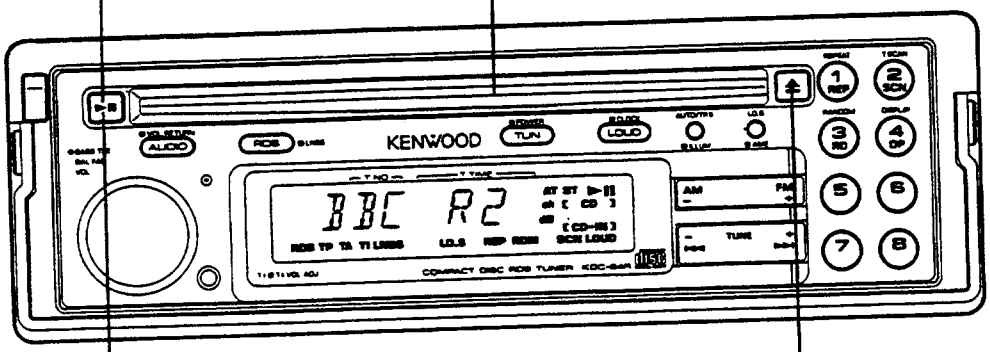
COMPACT DISC PLAY

Insert a 12 cm CD or an 8 cm CD with the label sides up.
(The disc will be drawn in, starting the CD, CD-IN and Play indicator to light ON.)



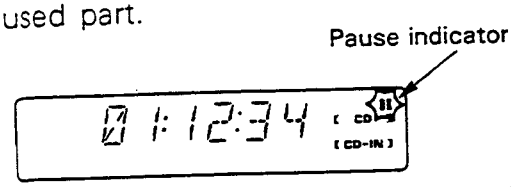
■ When a compact disc is in the unit, press the Play/Pause switch.





PAUSE

Press the Play/Pause switch.
(Disc play is temporarily paused and Pause indicator lights up.)
If you press the switch once more, the disc is replayed from the paused part.



EJECT

Press the Eject switch.
(The disc will come out.)

- Automatic loading and play can be made if the Play/Pause switch is pressed in the eject condition. Furthermore, if more than 15 seconds elapse in the ejection condition, it will automatically load and stop.
- When a disc is already inserted, do not insert another disc into the inserting slot.

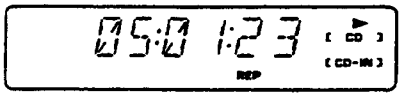
AHEAD/BACKWARD
(at high speed)

Operation	Press
Ahead	+
Backward	–

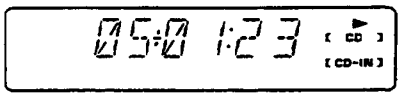
The Ahead/Backward play is released as soon as the finger is removed from the switch.

TIME DISPLAY

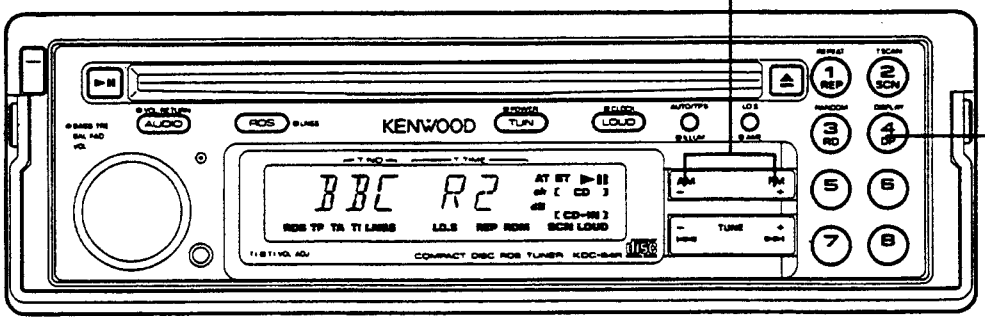
Press the Display switch.
(Every time you press it, it switches over between the track performance time and the absolute time. When the absolute time is displayed, "+" will appear.)



Track performance time display



Absolute time display



<How to change the modes>

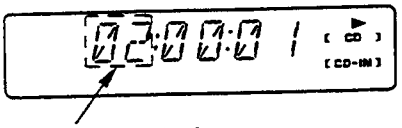
Present Mode	Destination Mode	Press
CD	Tuner	Tap the Tuner switch (TUN) (Compact disc play stops)
Tuner, CD-Changer	CD	A CD should be inserted or (▶II)

TRACK SEARCH & TRACK SCAN

■ TRACK SEARCH

BACKWARD TRACK SEARCH

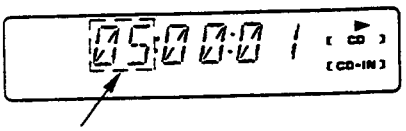
Press the ⏮ switch successively until the Track No. display shows the desired track No.



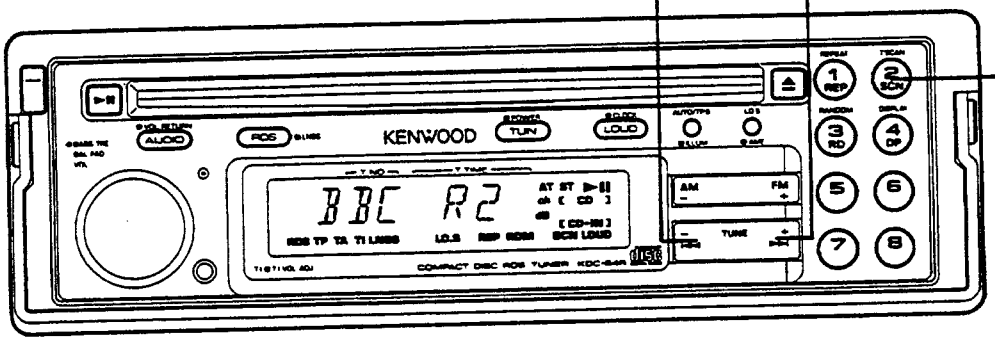
Track No. display

FORWARD TRACK SEARCH

Press the ⏭ switch successively until the Track No. display shows the desired track No.



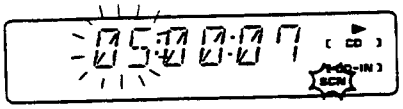
Track No. display



■ TRACK SCAN

1

Press the Track scan switch.
(The first 10 seconds of all tracks in the CDs are played in sequence, starting the Scan indicator to light ON.)



ON

2

When the beginning of a desired track starts to be played, press the Track scan switch.
(TRACK SCAN is released and normal CD play starts.)

REPEAT PLAY & RANDOM PLAY

■ REPEAT PLAY

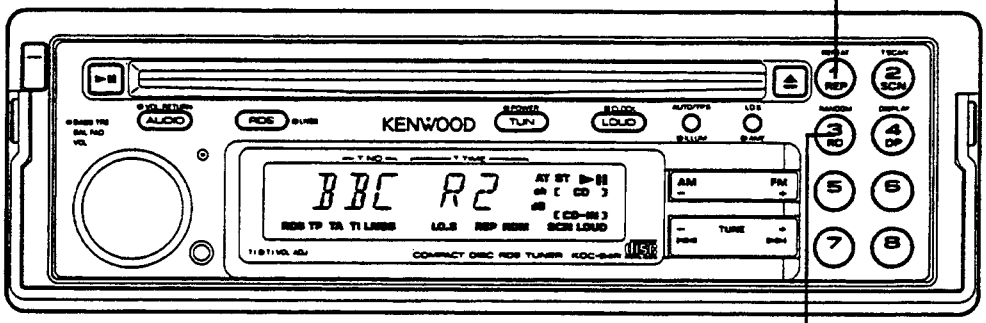
1

Press the Track repeat switch.
(Repeat indicator lights up.)

ON

2

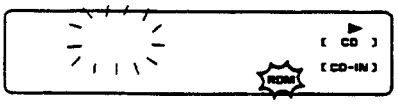
The track being played is played repeatedly.
(To release, press the Track repeat switch again.)



■ RANDOM PLAY

1

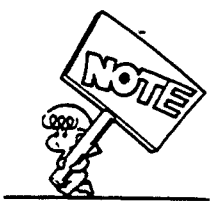
Press the Random switch.
(Random indicator lights up, changes the track number display one after another and selects the track.)



During Random Search

2

The tracks in the CD is played in a random order.
(To release, press the Random switch again.)

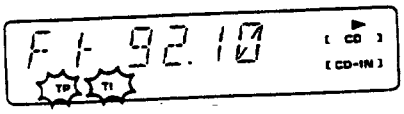


- Pressing the ►►I switch during Random play changes the track to the next random selection.

TRAFFIC INFORMATION during DISC PLAY

1

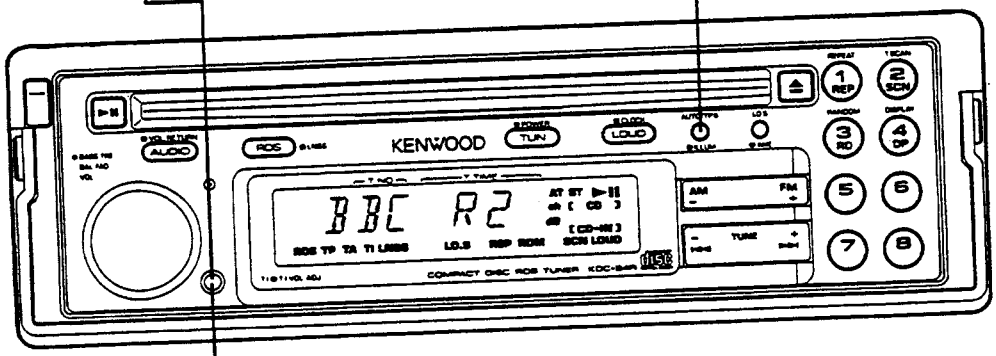
Tap the TI (Traffic Information) switch.
(TI indicator lights up.)
When the receiving broadcast station is not the TP (Traffic Program) station, it will start seek to up the TP station.
(TP indicator lights up.)



The frequency is displayed.

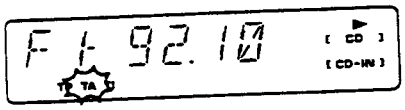
2

If you are not pleased with the TP station being received, press the TP Seek switch.
(It will receive another TP station.)



3

When traffic information starts, it automatically switches over to traffic information, (the disc play stops and TA indicator lights up) and when it is finished, it will return to the disc play.



4

When it switched over to traffic information, if you wish to continue listening to the disc, tap the TI switch.
(It will return to the disc play.)

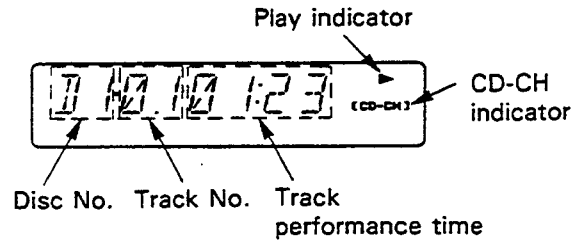
- When the TI switch is kept ON, even if it is turned to the disc play, you can listen to traffic information as well.

COMPACT DISC PLAY (CD-Changer is used)

<Functions of the KDC-94R>

COMPACT DISC PLAY

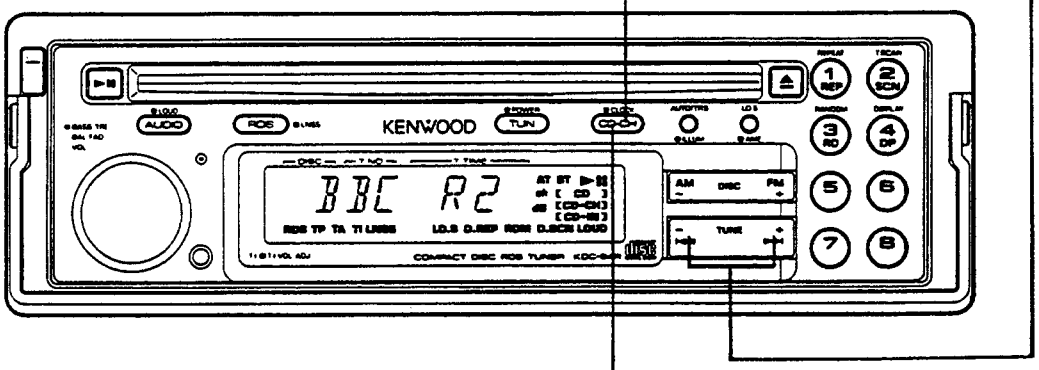
Press the CD-CH switch.
(The CD play starts.)



AHEAD/BACKWARD (at high speed)

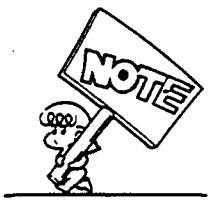
Operation	Press
Ahead	▶▶| and hold.
Backward	|◀◀ and hold.

The Ahead/Backward play is released as soon as the finger is removed from the switch.



TO STOP CD PLAY

Press the CD-CH switch.
(The CD play stops.)



At the end of the disc

- When disc reaches the end of the last selection of the next disc starts automatically. At the end of the last disc, the unit will go back to the beginning of the first disc, and the play will restart.

<How to change the modes>

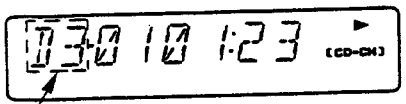
Present Mode	Destination Mode	Press
CD-Changer	Tuner	Tap the Tuner switch (TUN) (Compact disc play stops)
Tuner, CD	CD-Changer	(CD-CH)

TRACK/DISC SEARCH (CD-Changer is used)

<Functions of the KDC-94R>

BACKWARD DISC SEARCH

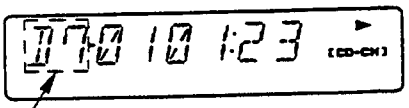
Tap the DISC – switch successively until the Disc No. display shows the desired disc No.



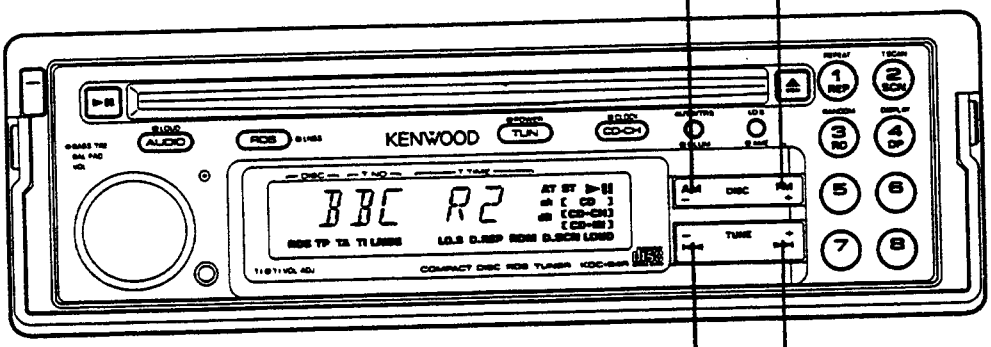
Disc No. display

FORWARD DISC SEARCH

Tap the Disc + switch successively until the Disc No. display shows the desired disc No.

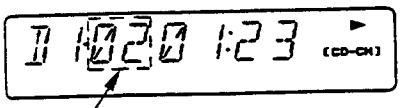


Disc No. display



BACKWARD TRACK SEARCH

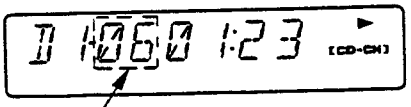
Tap the ⏮ switch successively until the Track No. display shows the desired track No.



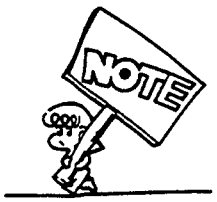
Track No. display

FORWARD TRACK SEARCH

Tap the ⏭ switch successively until the Track No. display shows the desired track No.



Track No. display



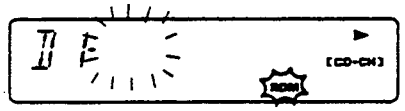
- If BACKWARD TRACK SEARCH is initiated while track No. 1 is being played, the play position always returns to the beginning of track No. 1 and other tracks cannot be searched.
- If FORWARD TRACK SEARCH is initiated while the last track of a disc is being played, no operation takes place.
- The Disc No. display of No. 10 Disc is "0".

RANDOM PLAY (CD-Changer is used)

<Functions of the KDC-94R>

1

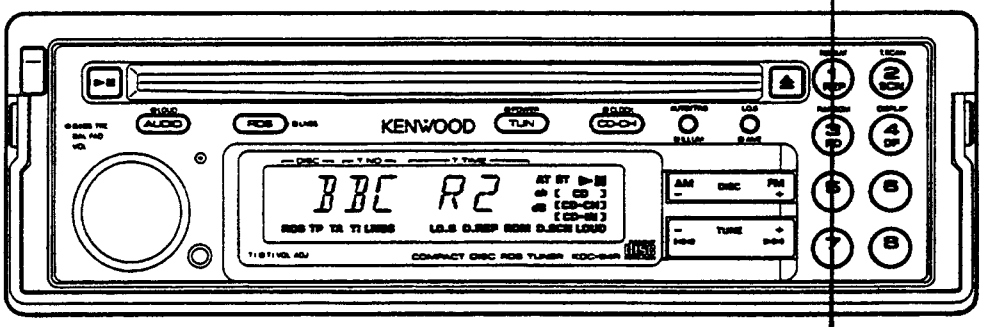
Press the Random switch.
(Random indicator lights up, changes the track number display one after another and selects the track.)



During Random Search

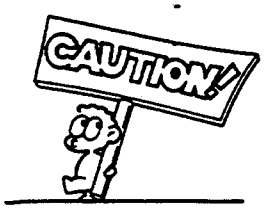
2

The tracks in the CD is played in a random order.
When all of the tracks in that CD have been played, the next CD is played in a random order.

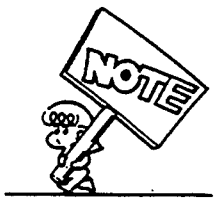


TO RELEASE

Press the Random switch again.



- When the Disc magazine is eject, RANDOM PLAY should be initiated again.



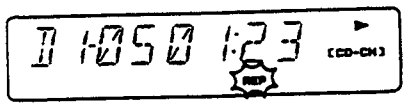
- Pressing the ▶▶| switch during RANDOM PLAY changes the track to the next random selection.

TRACK/DISC REPEAT (CD-Changer is used)

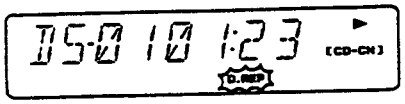
<Functions of the KDC-94R>

1

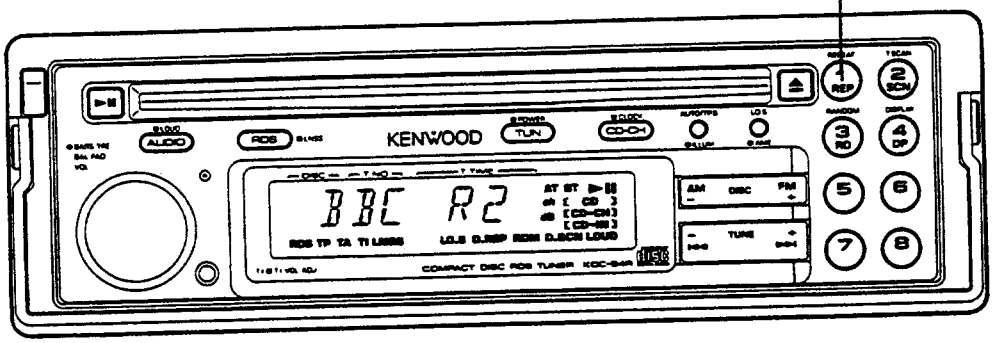
Each time the Repeat switch is pressed, the mode changes from TRACK REPEAT - DISC REPEAT - OFF - TRACK REPEAT ...
(When the TRACK REPEAT or DISC REPEAT is selected, the corresponding indicator lights up.)



Track repeat ON



Disc repeat ON

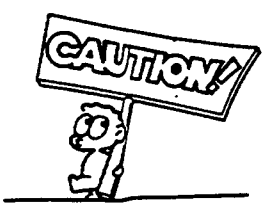


2 TRACK REPEAT

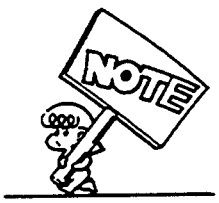
The track being played is played repeatedly.

2 DISC REPEAT

The Disc being played is played repeatedly.



- When the Disc magazine is eject, TRACK/DISC REPEAT should be initiated again.



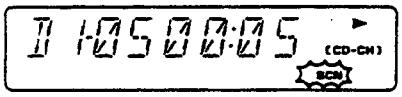
- Ahead/Backward CD PLAY (at high speed) cannot be initiated during TRACK/DISC REPEAT.

TRACK SCAN (CD-Changer is used)

<Functions of the KDC-94R>

1

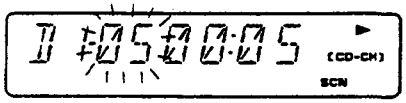
Tap the Track scan switch.
(Scan indicator lights up.)

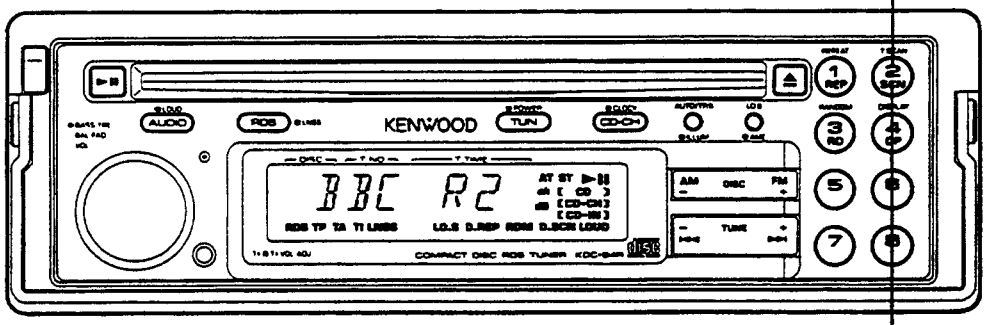


ON

2

The first 10 seconds of all tracks in the CDs are played in sequence.
(The Track No. display blinks.)





3

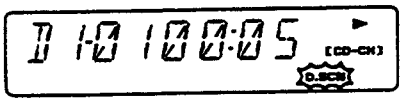
When the beginning of a desired track starts to be played, press the Track scan switch.
(TRACK SCAN is released and normal CD play starts.)

DISC SCAN (CD-Changer is used)

<Functions of the KDC-94R>

1

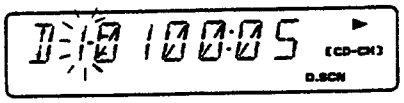
Press the Track scan switch for more than 1 second.
(Disc scan indicator lights up.)

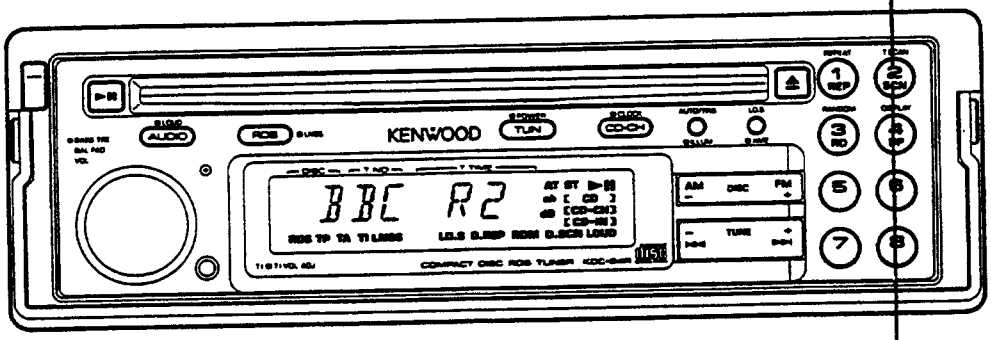


ON

2

The first 10 seconds of the disc will be played one after another.
(While the disc is being scanned, the disc number indicator blinks.)





3

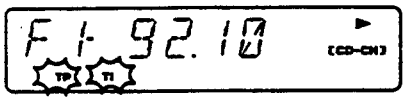
Press Track scan switch for the disc required.
(DISC SCAN will be canceled and operation will return to the normal DISC PLAY mode.)

TRAFFIC INFORMATION during DISC PLAY (CD-Changer is used)

<Functions of the KDC-94R>

1

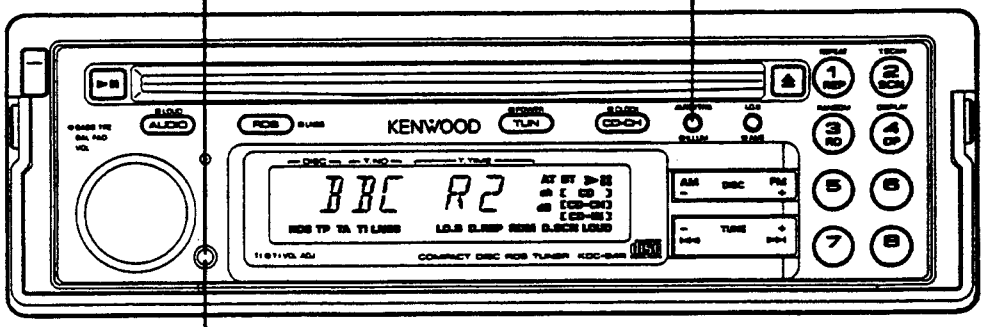
Tap the TI (Traffic Information) switch.
(TI indicator lights up.)
When the receiving broadcast station is not the TP (Traffic Program) station, it will start seek to up the TP station.
(TP indicator lights up.)



The frequency is displayed.

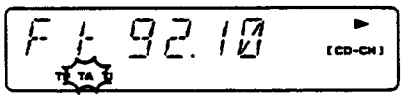
2

If you are not pleased with the TP station being received, press the TP Seek switch.
(It will receive another TP station.)



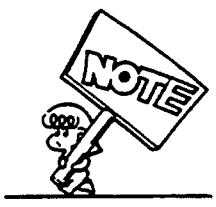
3

When traffic information starts, it automatically switches over to traffic information, (the disc play stops and TA indicator lights up) and when it is finished, it will return to the disc play.



4

When it switched over to traffic information, if you wish to continue listening to the disc, tap the TI switch.
(It will return to the disc play.)



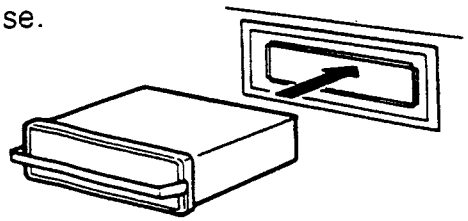
- When the TI switch is kept ON, even if it is turned to the disc play, you can listen to traffic information as well.

INSERTION/REMOVAL OF UNIT

■ Insert the unit

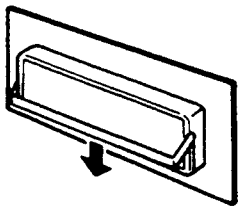
1

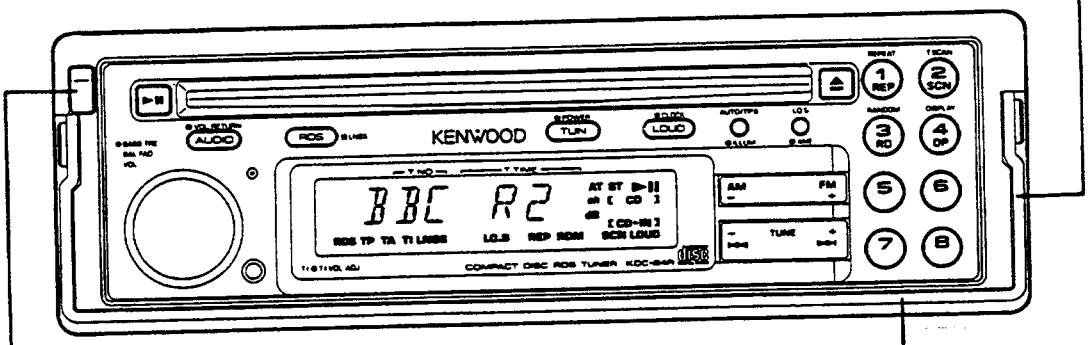
Insert the unit into the detachable case.



2

Lower the handle down to the bottom.





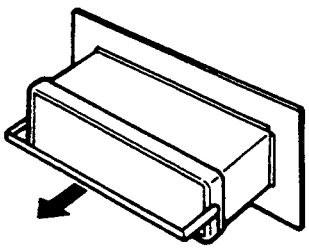
■ Remove the unit

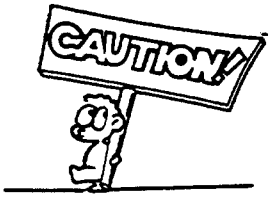
1

Press the T.P.C. button.
Lift the handle.
(The handle lock is released and power is OFF.)

2

Hold the handle and pull it out.





- This unit is precisely designed. While transporting the unit, do not apply shock. Doing so may damage the unit.

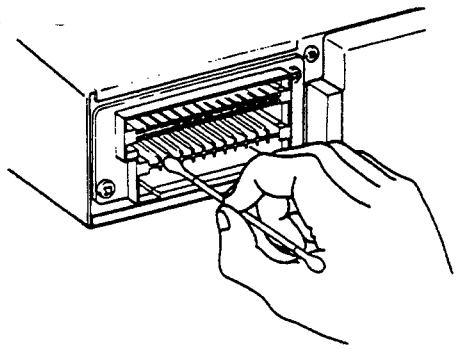
CARE AND MAINTENANCE

- Do not place the compact disc player in a place where the compact disc player may be exposed to direct sunlight, heat or moisture. Be careful that metal objects and water do not enter the set.
- If you have difficulty in installing the set in your car, please contact your KENWOOD dealer.

Cleaning

Clean with a dry silicone cloth or a soft cloth. The use of thinner, alcohol, or other solvents may damage the surface finish.

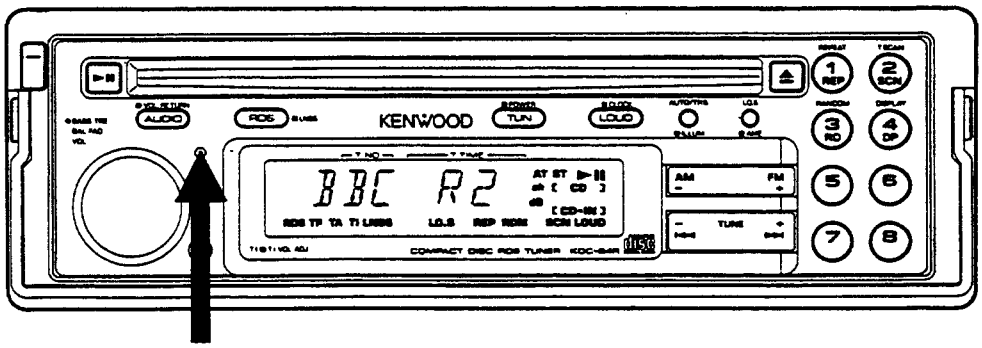
CAUTION:



The connection at the rear sometimes will require cleaning. Periodically wipe the connector with a cloth moistened with alcohol as shown at left.

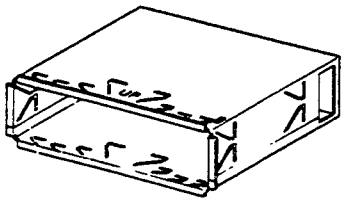
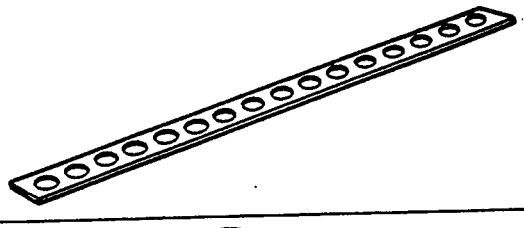
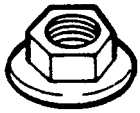
- **If your set malfunctions**

  If your set malfunctions or operates abnormally, first press the Reset button. If the malfunction persists, leave the set as it is and please call your KENWOOD dealer.



Reset button

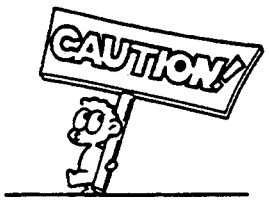
ACCESSORIES

No.	Part name	External View	Number of units
①	Detachable case		1
②	Metal mounting strap		1
③	Hex. bolt (M5 × 20)		1
④	Hex. nut (M5)		2

INSTALLATION

■ INSTALLATION

1. Before installation and wiring, remove the ⊖ terminal of the battery to prevent short-circuiting.
2. Connect the input and output cords of the system.
3. Connect the ground to the metal chassis of the car.
4. Connect the memory backup lead (yellow).
5. Connect the power supply lead (red).
6. Install the set and after confirming the installation and wirings are correct, connect the ⊖ terminal of the battery.
7. After installation, surely press the Reset button.



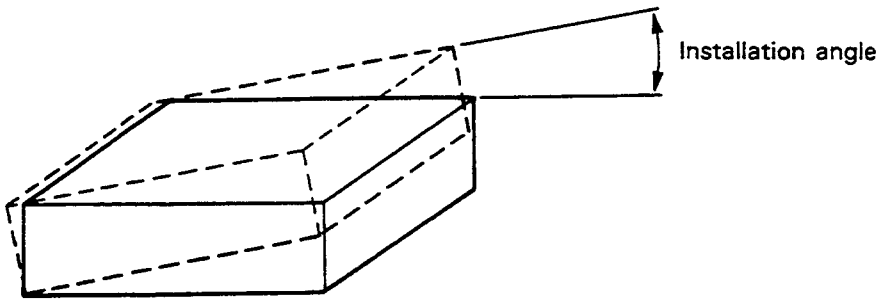
- If a fuse is blown, first check that the associated wires are not short-circuited then replace the fuse with a new one having the same capacity.
- Secure unconnected wires properly so that they do not contact the vehicle chassis.
- Do not remove the caps attached to the unused terminals.

⚠ WARNING

After installation, check that the brake lamp, turn indicator lights, wiper, etc. operate correctly.

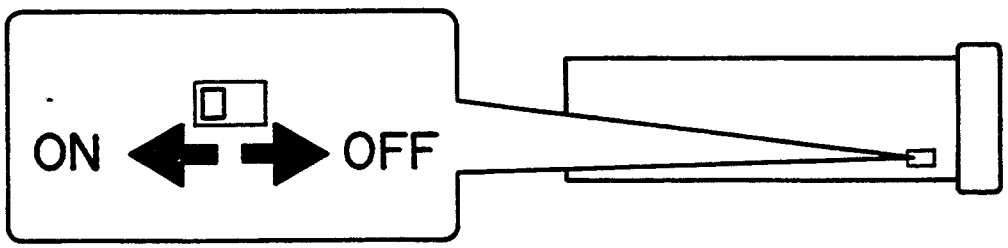
■ INSTALLATION ANGLE

This unit should be installed with an angle of less than 30° from the horizontal surface.

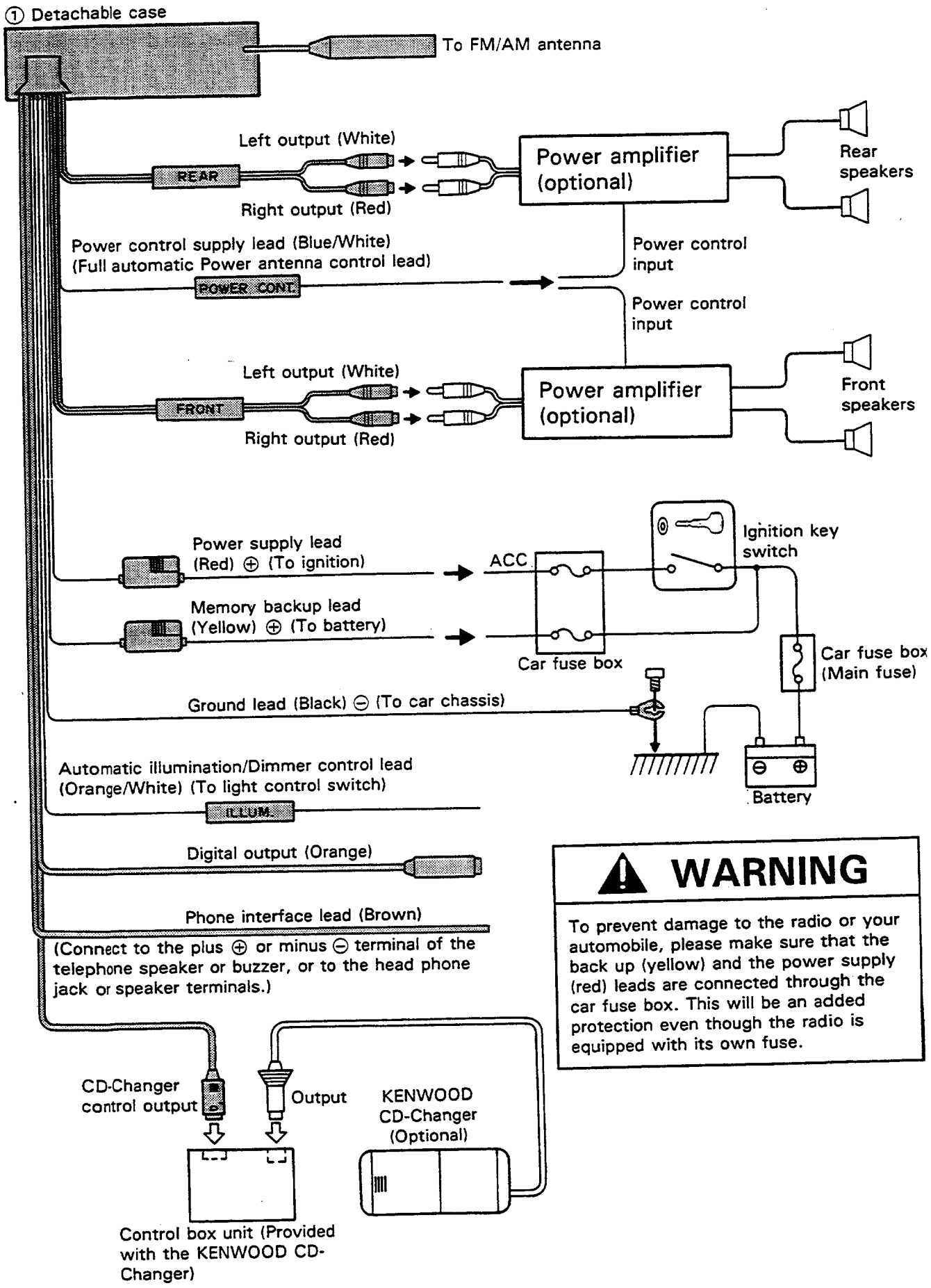


■ DIGITAL SELECTOR SWITCH (KDC-94R ONLY)

To use the Digital out, set the selector switch located at the side should be set to ON. (Digital signal of the CD can be output.)



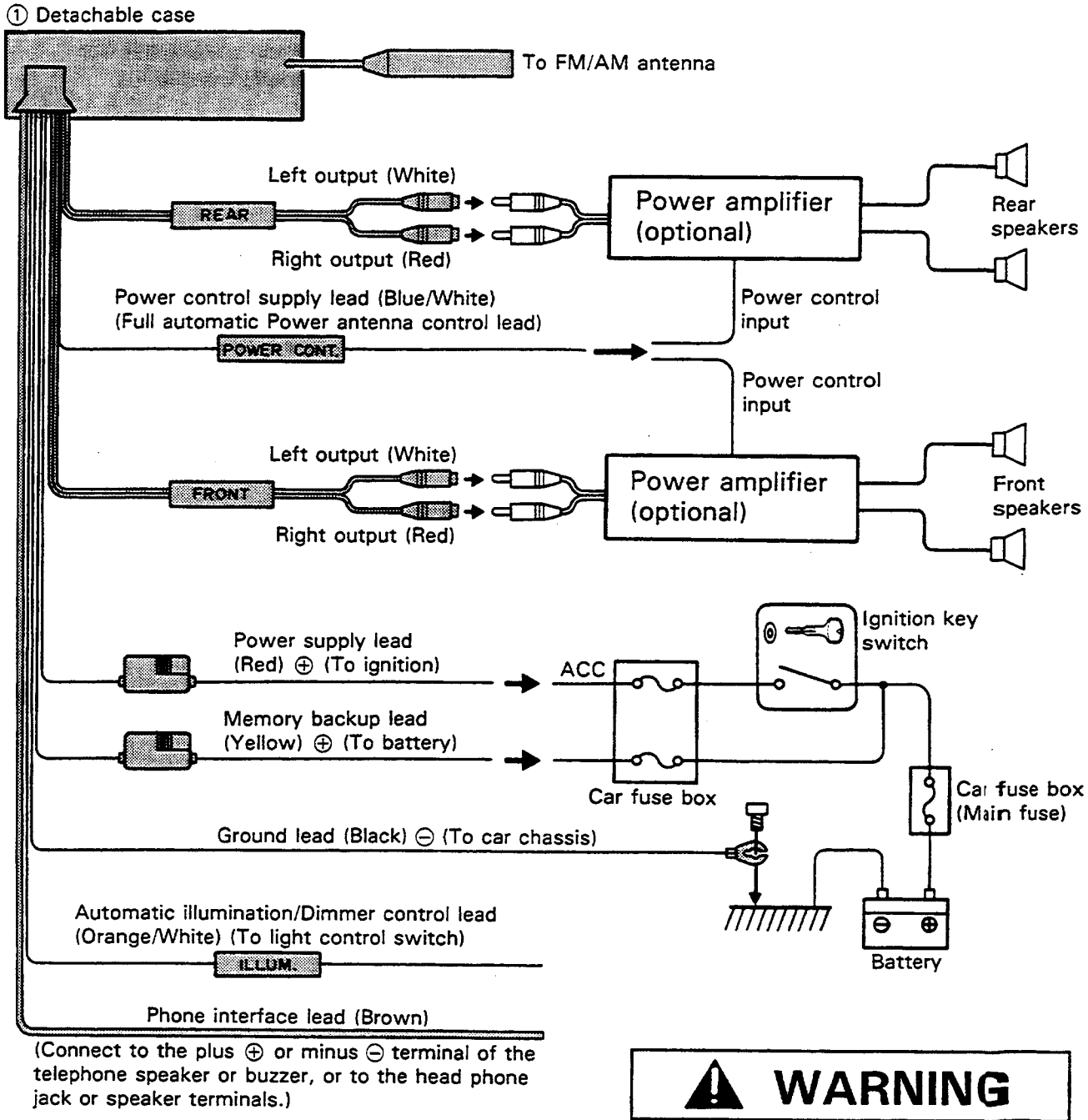
CONNECTIONS (KDC-94R)


① Detachable case
To FM/AM antenna
Left output (White)
REAR
Right output (Red)
Power amplifier (optional)
Rear speakers
Power control supply lead (Blue/White)
(Full automatic Power antenna control lead)
POWER CONT.
Power control input
Power control input
Left output (White)
FRONT
Right output (Red)
Power amplifier (optional)
Front speakers
Power supply lead (Red) ⊕ (To ignition)
ACC
Ignition key switch
Memory backup lead (Yellow) ⊕ (To battery)
Car fuse box
Car fuse box (Main fuse)
Ground lead (Black) ⊖ (To car chassis)
Battery
Automatic illumination/Dimmer control lead (Orange/White) (To light control switch)
ILLUM.
Digital output (Orange)
Phone interface lead (Brown)
(Connect to the plus ⊕ or minus ⊖ terminal of the telephone speaker or buzzer, or to the head phone jack or speaker terminals.)
CD-Changer control output
Output
KENWOOD CD-Changer (Optional)
Control box unit (Provided with the KENWOOD CD-Changer)

⚠ WARNING

To prevent damage to the radio or your automobile, please make sure that the back up (yellow) and the power supply (red) leads are connected through the car fuse box. This will be an added protection even though the radio is equipped with its own fuse.

CONNECTIONS (KDC-84R)

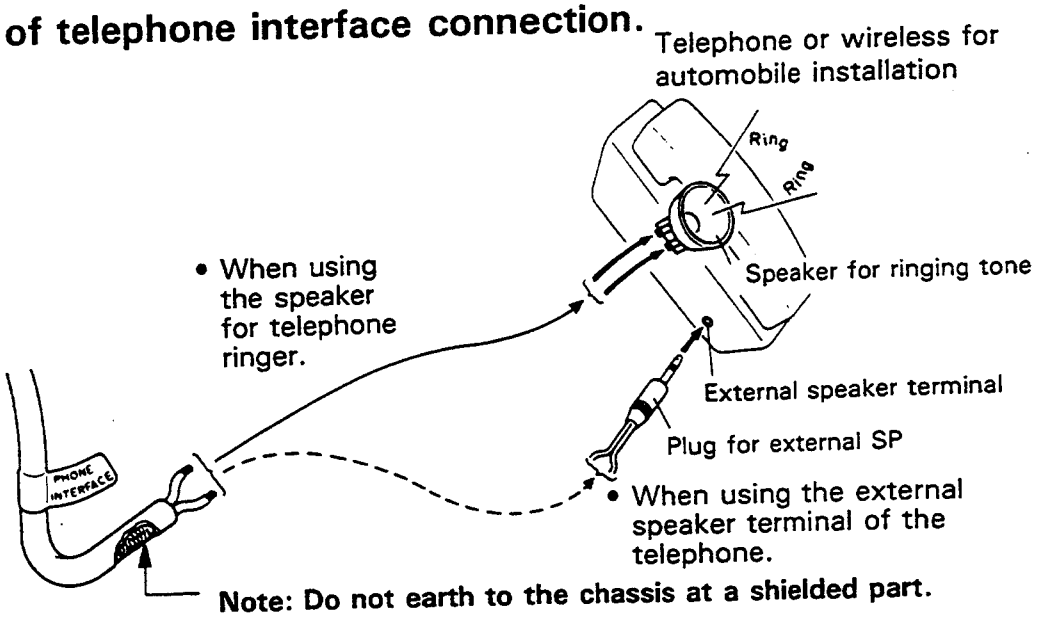

① Detachable case
To FM/AM antenna
Left output (White)
REAR
Right output (Red)
Power amplifier (optional)
Rear speakers
Power control supply lead (Blue/White)
(Full automatic Power antenna control lead)
POWER CONT.
Power control input
Power control input
Left output (White)
FRONT
Right output (Red)
Power amplifier (optional)
Front speakers
Ignition key switch
Power supply lead (Red) ⊕ (To ignition)
ACC
Memory backup lead (Yellow) ⊕ (To battery)
Car fuse box
Car fuse box (Main fuse)
Ground lead (Black) ⊖ (To car chassis)
Automatic illumination/Dimmer control lead (Orange/White) (To light control switch)
ILLUM.
Battery
Phone interface lead (Brown)
(Connect to the plus ⊕ or minus ⊖ terminal of the telephone speaker or buzzer, or to the head phone jack or speaker terminals.)

⚠ WARNING

To prevent damage to the radio or your automobile, please make sure that the back up (yellow) and the power supply (red) leads are connected through the car fuse box. This will be an added protection even though the radio is equipped with its own fuse.

CONNECTIONS

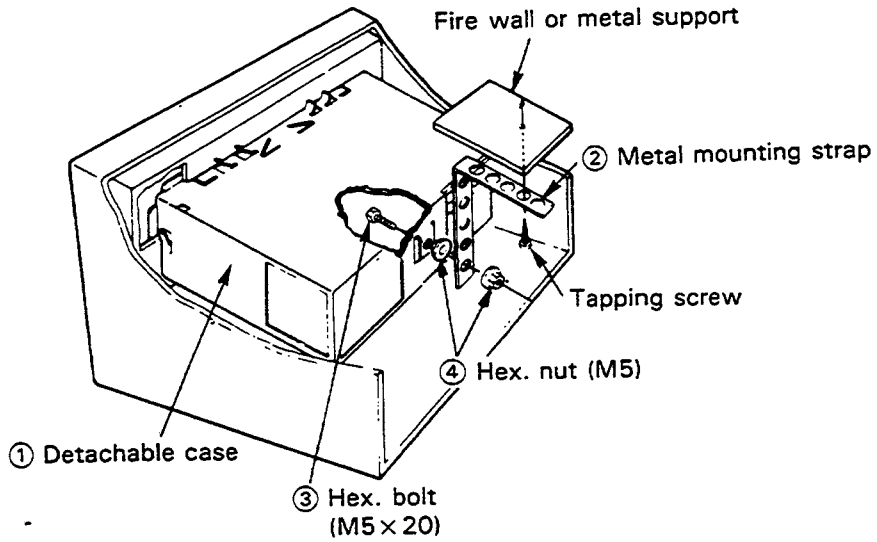
• Example of telephone interface connection.

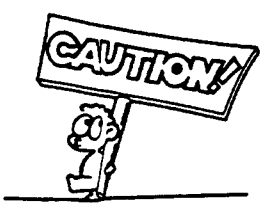

Telephone or wireless for automobile installation
Ring
Ring
Speaker for ringing tone
• When using the speaker for telephone ringer.
External speaker terminal
Plug for external SP
PHONE INTERFACE
• When using the external speaker terminal of the telephone.
Note: Do not earth to the chassis at a shielded part.

* When extending a cable, be sure to use a shielded cable.

INSTALLATION

- Insert the Detachable case ① into the console and clamp with the claws. If the detachable case cannot be inserted, cut off the console with a file.





- Securely install the Detachable case ①. If the case is not installed correctly, the sound may be skipped.

TROUBLESHOOTING GUIDE

What often appears to be a malfunction is often due to user error in operation or connection. When trouble occurs with your unit, please check the following before calling for service.

Symptom	Cause	Remedy
Compact disc cannot be inserted.	A compact disc has already been inserted and you are trying to inserted another disc.	Eject the previously inserted disc and insert another one.
A disc is ejected immediately after being inserted.	1. The compact disc is inserted upside down. 2. The compact disc is very dirty.	1. Insert the disc with the labeled side facing up. 2. Clean the disc (refer to "Cleaning of compact disc").
Even when the required track is specified, the specified track is not played or the player does not function.	The player is set to RANDOM PLAY.	Release RANDOM PLAY.
Sound is skipped by vibrations.	The compact disc is dirty or damaged.	If the sound skips even while the car is stationary, clean the compact disc (refer to "Cleaning of compact disc").
The sound quality is poor due to noise during playback.	1. The compact disc is damaged or dirty. 2. The sound recorded in the compact disc itself is poor.	1. Clean the compact disc (refer to "Cleaning of compact disc"). 2. Try playing another compact disc. If its sound quality is good, the poor sound was due to the disc itself.

TROUBLESHOOTING GUIDE

Symptom	Cause	Remedy
No sound one channel	The balance/fader control is extremely rotated to one side.	Adjust the balance/fader control.
Poor reception	The antenna is not extended.	Extend the antenna.
Operation switches do not function.	Correct operation is not obtained due to a sudden change in the power voltage, etc.	Press the Reset button of the front panel.
Phone interface does not function.	Phone interface lead is not connected correctly.	Connect it correctly according to the connecting method.
Phone interface functions although it is not used. (Displays "CALL" indication).	Conductor is contacting chassis and so on as phone interface lead is clipped or the cap at the tip is off.	Wire in such a way that the conductor of phone interface lead does not contact chassis and so on.

■ When the KENWOOD CD-changer is connected: (KDC-94R only)

Symptom	Cause	Remedy
CD play does not start.	Power switch is not turned ON.	Turn the power switch ON, then press the CD switch.
The specified disc is not played and the next disc is played.	1. The specified disc is too dirty. 2. The disc is placed upside down. 3. Two discs are set in the same position. 4. The specified disc is placed in a position with a different number. 5. The disc is damaged or scratched seriously.	1. Clean the disc. 2. Eject the magazine and re-insert the disc correctly. 3. Eject the magazine and set each disc correctly. 4. Eject the magazine to check the disc number and the position number, then specify again. 5. Play other discs.
No sound is output while the changer indicator is shown.	1. Volume is set to the minimum level. 2. The incorporated microcomputer is not operating correctly. 3. System connections are made imperfectly (power cord, connection of pre-out jacks, or speaker connections, etc.).	1. Increase the volume level. 2. Press the Reset button of this unit. 3. Check the connections according to the instruction manual. If anything is wrong, reconnect it correctly.
Even when the required track is specified, the specified track is not played or the player does not function.	The player is set to random play.	Release random play.

Other than the previous, this unit displays various error indications to show the following messages (KDC-94R only).

ER-00: The CD-changer control output is not connected.
ER-01: No disc magazine in the changer, or the magazine is not set completely.
ER-02: No discs in the disc magazine.
ER-03: The specified track is not present on the disc.
(Example: This appears when the 15th track is specified for a disc on which only 10 tracks are contained.)
ER-04: Disc is too dirty.
Condensation has occurred on the disc, or water drops are on the disc.
Disc is set upside down.
ER-99: Operation incorrect due to something being defective.
Press the Reset button on this unit.
If the "ER-99" indication does not disappear with this operation, consult your nearest KENWOOD Service Agent.
ER-0D:
- When the temperature exceeds 60°C, the protection circuit is engaged to stop any operation. At this time, this indication will appear.
- Open a window or turn the air-conditioner ON to lower the temperature. After a while, this indication will go out.
- This indication also appears for several seconds when making connections, or when the Reset button is pressed.

ER-0E: This is displayed when the condition of "ER-0D" is released.
LOAD: This indication appears while a disc is being changed inside the changer.

CAUTION: Random play, Track/Disc repeat or Track/Disc scan cannot be initiated while the load indication is displayed.

* When no indicator appears in this unit and only illumination appears, the cable connector may nearly be disconnected.

SPECIFICATIONS

Specification subject to change without notice.

Disc Section

Laser Diode	GaAlAs (λ = 780 nm)
Digital Filter (D/A)	8 Times Over Sampling
D/A Converter	1 bit (with D.P.A.C.)
Spindle Speed	500 ~ 200 rpm (CLV)
Wow & Flutter	Below Measurable Limit
Frequency Response (±1 dB)	5 Hz ~ 20 kHz
Total Harmonic Distortion (1 kHz)	0.005%
Signal to Noise Ratio	96 dB
Dynamic Range	96 dB
Channel Separation	85 dB

FM Tuner Section

Frequency Range	87.5 MHz ~ 108.0 MHz
Channel Space	50 kHz
Usable Sensitivity	12.0 dBf (1.1 μV/75 Ω)
50 dB Quieting Sensitivity	15.2 dBf (1.6 μV/75 Ω)
Frequency Response (±1 dB)	30 Hz ~ 15 kHz
Signal to Noise Ratio (IEC-A)	70 dB
Selectivity (DIN)	70 dB
Capture Ratio	1.5 dB
Stereo Separation (1 kHz)	40 dB

MW Tuner Section

Frequency Range	531 kHz ~ 1611 kHz
Channel Space	9 kHz
Usable Sensitivity	27 dBμ

LW Tuner section

Frequency Range	153 kHz ~ 281 kHz

Audio Section

Tone Action	Bass: 100 Hz ± 8 dB Treble: 10 kHz ± 8 dB
Preout Level	1.0 V

General

Operating Voltage	14.4 V (11 ~ 16 V)
Current Consumption	1.2 A
Operating Temperature	−10 ~ 50 °C
Installation Size (W × H × D)	180 × 50 × 170 mm (7-1/16 × 1-15/16 × 6-11/16 in)
Weight	2.1 kg (4.6 lb)